

REMARKS

Applicants have received an "Order Returning Undocketed Appeal to Examiner" mailed July 18, 2005.

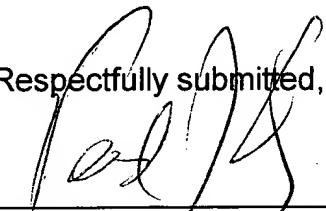
Specifically, in the Order it is indicated that language of claim 7 in the Appendix (to the Appeal) differs from its last amended version. It is further indicated, as one option, that appellant be notified to submit a new Appendix to the Appeal Brief containing the corrected claims.

In this regard, applicants attach hereto a new "Appendix of Claims (37 CFR §1.192(c)(9)) in which claim 7 has been amended to include the term "aliphatic acids," before "monocarboxylic acids" which term had previously been inadvertently omitted.

No fees are believed due in connection with submission of the new Appendix. However, if any such fees are due, authorization is hereby given to charge the amount of any such fee to Deposit Account 12-1155.

If a telephone conference would be of assistance in advancing the prosecution of this application, applicant's undersigned attorney invites the Examiner to telephone him at the number provided.

Respectfully submitted,


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APPENDIX OF CLAIMS (37 C.F.R. 1.192(c) (9))

1. A mechanical dishwashing composition comprising:
 - (A) an anti-scaling polymer formed from
 - (i) 50 to 99% by weight of the polymer of an olefinically unsaturated carboxylic monomer;
 - (ii) 1 to 50% of at least one monomer unit selected from the group consisting of copolymerizable sulfonated monomers, copolymerizable nonionic monomers and mixtures thereof;
 - (B) 0.1 to 99.9% of a vehicle designed to release at least an effective amount of the polymer to prevent scaling;

wherein said polymer is released into a cold, penultimate rinse cycle preceding a heated, final rinse cycle of a dishwashing sequence;

wherein said vehicle of (B) is defined as (1) the sum of all components forming said composition except for said antiscalining polymer; or (2) an encapsulating material or other slow release protective chemical or device.

 2. The composition according to claim 1 wherein the polymer has a weight average molecular weight ranging from about 1500 to about 250,000.
 3. The composition according to claim 1 wherein said vehicle is designed to further release at least an effective amount of the polymer into a heated final rinse of the dishwashing cycle to prevent scaling.
 4. The composition according to claim 3 wherein the polymer is released in a relative weight ratio of about 1:10 to about 10:1 in the penultimate and the final rinse,

respectively.

5. The composition according to claim 4 wherein the ratio is about 1:5 to about 5:1 for release in the penultimate and the final rinse, respectively.
6. The composition according to claim 5 wherein the ratio is about 1 for release in the penultimate and the final rinse, respectively.
7. The composition according to claim 1 wherein the olefinically unsaturated carboxylic monomer is in acid or salt form selected from the group consisting of aliphatic acids, monocarboxylic acids, dicarboxylic acids, polycarboxylic acids and mixtures thereof.
8. The composition according to claim 7 wherein the aliphatic acids are monoolefinic acrylic acids containing a substituent selected from the group consisting of hydrogen, halogen, hydroxyl, C₁-C₂₀ alkyl, C₆-C₁₂ aryl, C₆-C₁₆ aralkyl, C₇-C₁₆ alkaryl, C₅-C₁₆ cycloaliphatic radicals and mixtures thereof.
9. The composition according to claim 1 wherein the sulfonated monomers are compounds in acid or respective salt form selected from the group consisting of allyl hydroxypropanyl sulfonate ether, allylsulfonic acid, methallylsulfonic acid, styrene sulfonic acid, vinyl toluene sulfonic acid, acrylamino alkane sulfonic acid, allyloxybenzene sulfonic acid, 2-alkylallyloxybenzene sulfonic acids and mixtures thereof.
10. The composition according to claim 1 wherein the nonionic monomers are vinyl or allyl compounds selected from the group consisting of C₁-C₆ alkyl esters of (meth) acrylic acid, acrylamide, C₁-C₆ alkyl substituted acrylamides, N-alkyl substituted acrylamides, N-alkanol-substituted acrylamides and N-vinyl pyrrolidone.

11. The composition according to claim 1 wherein the polymer is a tetra polymer of sodium methallyl sulfonate, acrylic acid, methyl methacrylate and 4-sulfophenol methallyl ether, the ether having a formula:



12. A method for washing soiled dishes comprising charging a mechanical dishwashing composition to a wash liquor in a washing machine, the composition comprising:
- (A) an anti-scaling polymer formed from
- (i) 50 to 99% by weight of the polymer of an olefinically unsaturated carboxylic acid monomer;
- (ii) 1 to 50% of at least one monomer unit selected from the group consisting of copolymerizable sulfonated monomers, copolymerizable nonionic monomers and mixtures thereof;
- (B) 0.1 to 99.9% of a vehicle designed to release at least an effective amount of the polymer to prevent scaling;

wherein said vehicle of B is defined as (1) the sum of all components forming said composition except for said anti-scaling polymer; or (2) an encapsulating material or other slow release protective chemical or device;

wherein said method comprises charging said dishwashing composition to a cold, penultimate rinse cycle preceding a heated, final rinse cycle of a dishwashing sequence.